Whole-PhD Support in Instrumentation

IF Report, Key Challenge IF-2: "Develop and maintain the critical and diverse technical workforce"

Current Support Mechanisms

Direct to students:

- SCGSR (~150 awards/year)
  - 0.25-1 year, @ nat'l lab
- Traineeships (*O*(10)/year)
  - 1-2 years, @ specific universities (in CA, MI, …)
- GIRA (~2 fellows / year)
  - 1-3 years, @ nat'l lab

Focus is short-term support

Through PIs:

- Base grant
  - Physics Frontiers – limited R&D
  - Det R&D – limited $$, emphasis on generic R&D
- Project/Operations
  - Limited scope for student support

1 full student on R&D "is excessive for base funding award" (panel review)

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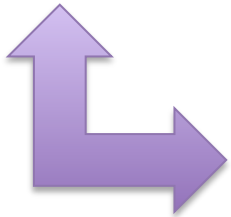

IF Report, Key Challenge IF-4: "Expand and sustain support for blue-sky R&D, small-scale R&D, and seed funding."

Blue-sky R&D organically brings instrumentation training into the whole PhD experience.

Many of our leaders and rising stars in neutrino, rare process, QIS and dark matter detection enjoyed this sort of PhD

Whole-PhD Support in Instrumentation

Potential Support Mechanisms

Direct to students:

- GIRA (3 years support)
  - Expand program (10+ awards per year)
  - Extend to students doing work at Universities

Through PIs:

- Blue-sky / small-scale / seed funding
  - *Expect* to support whole PhDs in these projects

Keep in mind: PhD students …

…come in discrete units

…come through Universities